

IN THE CLAIMS*

Please cancel, without prejudice, claim 8.

9/21/91
1. (Three times amended) A DNA sequence capable of encoding a domain or fragment of an antibody, wherein said domain or fragment comprises an exposed interface, wherein:

a) an interface allows contact along a longitudinal axis between adjacent domains within a heavy chain or within a light chain of a larger antibody fragment or a full antibody;

b) said exposed interface comprises a modification as compared to a domain or fragment of a parent antibody, wherein said modification to said exposed interface results in said domain or fragment of said antibody demonstrating increased hydrophilicity as compared to said domain or fragment of said parent antibody.

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2. (Twice amended) The DNA sequence according to claim 1 in which said modification is a substitution of one or more amino acids with amino acids which are more hydrophilic.

3. (Twice amended) The DNA sequence according to claim 1 in which said modification comprises:

- (a) insertion of one or more hydrophilic amino acids;
- (b) insertion of one or more amino acids;
- (c) deletion of one or more hydrophobic amino acids;

and

- (d) deletion of amino acids.

* Applicant has attached hereto Appendix A which presents the amendments to the claims in the bracket and underline format.

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4. (Twice amended) The DNA sequence according to claim 1 in which said modification consists of any two or more of:

- a) substitution of one or more amino acids with amino acids which are more hydrophilic;
 - b) insertion of one or more hydrophilic amino acids or insertion of amino acids; and
 - c) deletion of one or more hydrophobic amino acids or deletion of amino acids.
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23. (Amended) The DNA sequence according to claim 20 in which said peptide comprises a dimerization domain which results in self-association of two or more of said antibody fragments.

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24. (Amended) The DNA sequence according to claim 23 in which said dimerization domain is derived from a leucine zipper or from a helix-turn-helix motif.

25. (Amended) The DNA sequence according to claim 20 in which said peptide comprises a first dimerization domain which results in hetero-dimerization of one or more of said antibody fragments with one or more peptides or proteins comprising a second hetero-dimerization domain being able to dimerize with said first hetero-dimerization domain.

REMARKS

Claims 1-27 are pending in this application.

Applicants acknowledge with appreciation the Examiner's withdrawal of the objections to the specification (as described in paragraphs 4-6 of Paper No. 15), the rejections under 35